

Abstract of the Disclosure

5 A high temperature viscosifying and fluid loss controlling additive for use in well
cements, well cement compositions including the additive and methods of using the
compositions are provided. The well cement compositions of this invention are
comprised of a hydraulic cement, water and a viscosifying and fluid loss controlling
additive comprising a mixture of a polymer comprised of at least one monomer which is
10 calcium tolerant, anionic and disperses basic cement slurries, at least one monomer which
hydrolyzes in basic cement slurries to generate anionic carboxylate groups that bind with
calcium and viscosify the slurries and at least one monomer which generates non-ionic
pendant groups on the polymer upon hydrolyzing in basic cement slurries to prevent
polymer precipitation and a homopolymer of a monomer which hydrolyzes in basic
15 cement slurries to generate anionic carboxylate groups that bind with calcium, viscosify
the slurries and prevent settling in the slurries.